

CLAIM SUMMARY DOCUMENT

The following listing of claims will replace all prior versions and listings of claims in this application.

B1 1. (Currently Amended) An implantable tubular device formed substantially tubular and having a deformable portion formed on a peripheral surface thereof, with said deformable portion forming a predetermined angle with respect to an axial direction of said device and being easy to deform in comparison with a remainder part of said device, said deformable portion being formed in a plural number, and ~~said deformable portions being entirely on said tubular device~~, said deformable portions being formed as grooves provided on an inner surface of said tubular device which faces inwardly toward an interior of said tubular device, on an outer surface of said tubular device which faces away from the interior of the tubular device or on both the inner and outer surfaces of said tubular device.

2. (Previously Presented) An implantable tubular device formed substantially tubular and having a diameter so set that said device can be inserted into a lumen in a human body and capable of dilating radially upon application of a force acting radially outwardly from an interior of said tubular body,

said device comprising:

a plurality of wavy annular members each formed of a wavy element and arranged in an axial direction of said device; and

connection portions each connecting said wavy annular members to each other in the axial direction of said device;

wherein each of said wavy annular members has free bent portions not connected to other wavy annular members;

a deformable portion forming a predetermined angle with respect to the axial direction of the device and more easily deformed than a remainder of the device;

said deformable portion being formed on one of the free bent portions in such a way that said deformable portion crosses said wavy annular member.

3. (Canceled).

4. (Original) An implantable device according to claim 3, wherein a depth of said groove is set to 5 - 50% of a thickness of said device.

5. (Previously Presented) An implantable device according to claim 1, wherein said deformable portions form an angle of 20 - 90° with the axial direction of said device.

6. (Previously Presented) An implantable device according to claim 1, wherein said deformable portions are so formed that when said deformable portions are prolonged, said deformable portions continuously go around a periphery of said device.

7. (Previously Presented) An implantable device according to claim 1, wherein said deformable portions are so formed that when said deformable portions are prolonged, a spiral is formed on the periphery of said device.

8. (Canceled)

9. (Previously Presented) An implantable device according to claim 1, wherein an interval between said deformable portions in the axial direction of said device is 0.01 - 1mm.

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10. (Original) An implantable device according to claim 1, wherein said device consists of a stent or a stent graft.

11. (Previously Presented) An implantable device according to claim 1, wherein said device is formed by forming a spiral deformable portion-provided tubular body by connecting axially adjacent coiled wire members to each other directly or indirectly and removing a portion of said tubular body other than a portion thereof which is to be formed as said device.

12. (Previously Presented) An implantable device according to claim 1, wherein said device is formed by forming an annular deformable portions-provided tubular body by

directly or indirectly connecting ring members so disposed parallel to each other as to form a cylindrical shape and removing a portion of said tubular body other than a portion thereof which is to be formed as said device.

13. (Original) An implantable device according to claim 3, wherein a depth of said groove is set to 1 – 99% of a thickness of said device.

14. (Original) An implantable device according to claim 1, wherein said device carries a medicine, a bioprosthetic material or a biosynthesis material.

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15. (Original) An implantable device according to claim 1, wherein at least one part of the outer surface of said device is coated with a coating material made of a biocompatible material, a biodegradable material or a synthetic resin.

16. (Previously Presented) An implantable device according to claim 1, wherein at least one part of an outer surface of said deformable portions is coated with a coating material made of a biocompatible material, a biodegradable material or a synthetic resin.

17. (Original) An implantable device according to claim 15, wherein said coating material carries a medicine, a bioprosthetic material or a biosynthesis material.

18. (Original) An implantable device according to claim 15, wherein said coating material is formed of a biodegradable material to which a medicine, a bioprosthetic material or a biosynthesis material is added.

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Cont 19. (Original) An implantable device according to claim 14, wherein said medicine contains at least one pharmaceutical selected from the group consisting of a medicine for preventing intimal hyperplasia, a carcinostatic agent, an immunosuppressor, an antibiotic, an antirheumatic, an antithrombotic drug, HMG-CoA reductase inhibitor, an ACE inhibitor, a calcium antagonist, an anti-hyperlipidemia agent, anti-inflammatory agent, an integrins inhibitor, an antiallergic agent, an antioxidant, a GP II b III a antagonist, retinoids, flavonoids, carotenoids, a lipid-improving agent, a DNA-synthesis inhibitor, a tyrosine kinase inhibitor, an antiplatelet agent, a vascular smooth muscle cell proliferation inhibitor, an anti-inflammatory agent, a bioprosthetic material and interferon.

20. (Previously Presented) An implantable device according to claim 1, wherein said device consists of a stent having a frame structure, and said deformable portions are entirely on said frame structure.

21. (Previously Presented) An implantable device according to claim 2, wherein said device consists of a stent having a frame structure, and said deformable portion is

formed in a plural number and said deformable portions are entirely on said frame structure.

22. (Previously Presented) An implantable device according to claim 2, wherein said deformable portion consists of a groove formed on an inner surface of said device or on an outer surface thereof or on both said inner and outer surfaces thereof.

23. (Previously Presented) An implantable device according to claim 22, wherein a depth of said groove is set to 5 - 50% of a thickness of said device.

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24. (Previously Presented) An implantable device according to claim 2, wherein said deformable portion is formed in a plural number and an interval between said deformable portions in the axial direction of said device is 0.01 - 1mm.

25. (Previously Presented) An implantable device according to claim 2, wherein said device is formed by forming a spiral deformable portion-provided tubular body by connecting axially adjacent coiled wire members to each other directly or indirectly and removing a portion of said tubular body other than a portion thereof which is to be formed as said device.

26. (Previously Presented) An implantable device according to claim 2, wherein said device is formed by forming an annular deformable portions-provided tubular body by directly or indirectly connecting ring members so disposed parallel to each other as to form a cylindrical shape and removing a portion of said tubular body other than a portion thereof which is to be formed as said device.

27. (Previously Presented) An implantable device according to claim 2, wherein said device carries a medicine, a bioprosthetic material or a biosynthesis material.

28. (Previously Presented) An implantable device according to claim 2, wherein at least one part of the outer surface of said device is coated with a coating material made of a biocompatible material, a biodegradable material or a synthetic resin.

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29. (Previously Presented) An implantable device according to claim 2, wherein at least one part of an outer surface of said deformable portion is coated with a coating material made of a biocompatible material, a biodegradable material or a synthetic resin.

30. (Previously Presented) An implantable device according to claim 29, wherein said coating material carries a medicine, a bioprosthetic material or a biosynthesis material.

31. (Previously Presented) An implantable device according to claim 29, wherein said coating material is formed of a biodegradable material to which a medicine, a bioprosthetic material or a biosynthesis material is added.

32. (New) An implantable tubular device formed substantially tubular and having a diameter so set that said device can be inserted into a lumen in a human body and capable of dilating radially upon application of a force acting radially outwardly from an interior of said tubular body,

said device comprising:

a plurality of annular members arranged in an axial direction of said device; and

connection portions each connecting said annular members to each other in the axial

direction of said device;

wherein each of said annular members has deformable portions forming a predetermined angle with respect to the axial direction of the device and being more easily deformed than a remainder of the device, said deformable portions being formed as grooves provided on an inner surface of the tubular device which faces inwardly toward an interior of the tubular device, on an outer surface of the tubular device which faces away from the interior of the tubular device or on both the inner and outer surfaces of the tubular device.

33. (New) An implantable tubular device having a plurality of deformable portions formed on a peripheral surface of the tubular device, with the deformable portions forming a predetermined angle with respect to an axial direction of the tubular device and being more easily deformed in comparison with a remainder part of the tubular device, the tubular device being comprised of a plurality of annular units, with adjacent annular units connected together by joining portions, the annular units each being comprised of at least one wavy annular member, said deformable portions being formed as grooves provided on said wavy annular members.

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Cont'd 34. (New) An implantable device according to claim 33, wherein the grooves are provided on an inner surface of said tubular device which faces inwardly toward an interior of the tubular device, on an outer surface of the tubular device which faces away from the interior of the tubular device or on both the inner and outer surfaces of the tubular device.
